



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Robert Levi et al.

Serial No.: 10/618,549

Filed: July 11, 2003

For: GYRO AIDED MAGNETIC COMPASS

Patent Examiner:

Group Art Unit: 2862

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

Dear Sir:

In an attempt to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56 and in conformance with 37 C.F.R. §§ 1.97 and 1.98, applicant wishes to bring to the attention of the U.S. Patent Office the references listed on the attached PTO-A820.

Copies of the non-US Patent references and six forms PTO-A820 are attached.

If the Examiner believes that a telephone conference would help further the prosecution of this case, he is respectfully requested to contact the undersigned attorney at the listed telephone number.

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to:
 Commissioner for Patent, PO Box 1450,
 Alexandria, VA 22313-1450 on 4-26-04

by: Rachel Carter

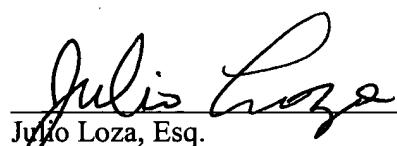
Rachel Carter

Signature

Date of Signature: 4-26-04

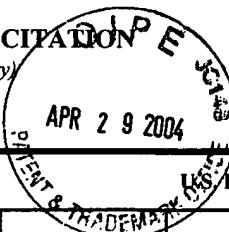
Very truly yours,

SNELL & WILMER LLP


 Julio Loza, Esq.
 Reg. No. 47,758
 1920 Main Street, Suite 1200
 Irvine, CA 92614
 Phone 949/253-4924

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



Docket Number (Optional)

42616-0600

Application Number

10/618,549

Applicant(s)

R. Levi et al.

Filing Date

July 11, 2003

Group Art Unit

2862

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2001/0045128	11/29/2001	McCall et al.			
		2002/0040601	04/11/2002	Fyfe et al.			
		2002/0091482	07/11/2002	Eakle, Jr. et al.			
		2002/0111717	08/15/2002	Scherzinger et al.			
		2002/0128775	09/15/2002	Brodie et al.			
		2002/0143491	10/03/2002	Scherzinger			
		2003/0018430	01/23/2003	Ladetto et al.			
		2,091,964	09/07/1937	L.F. Carter			
		3,583,074	06/08/1971	D.H. Baker et al.			
		4,031,630	06/28/1977	Fowler			
		4,143,467	03/13/1979	Erspamer et al.			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

LADETTO, Quentin, et al., "Combining Gyroscopes, Magnetic Compass and GPS for Pedestrian Navigation", date unknown, Geodetic Engineering Laboratory, Institute of Geomatics, Swiss Institute of Technology, 8 pg.

LADETTO, Quentin, "On Foot Navigation: Continuous Step Calibrations Using Both Complementary Recursive Prediction and Adaptive Kalman Filtering", date unknown, Geodetic Laboratory, Institute of Geomatics, Swiss Federal Institute of Technology, 6 pg.

EXAMINER

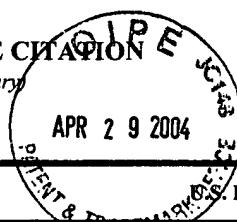
DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 42616-0600	Application Number 10/618,549		
				Applicant(s) R. Levi et al.			
				Filing Date July 11, 2003	Group Art Unit 2862		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,347,730	09/07/1982	Fisher et al.			
		4,611,293	09/09/1986	Hatch et al.			
		4,622,646	11/11/1986	Waller et al.			
		4,656,750	04/14/1987	Pitt et al.			
		4,809,007	02/28/1989	Hassenplug			
		4,851,775	07/25/1989	Kim et al.			
		4,887,081	12/12/1989	Iihoshi et al.			
		4,991,126	02/05/1991	Reiter			
		5,067,083	11/19/1991	Nakayama et al.			
		5,115,238	05/19/1992	Shimizu et al.			
		5,122,960	06/16/1992	Ooka			
FOREIGN PATENT DOCUMENTS							
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	GABAGLIO, Vincent et al., "Real-Time Calibration of LENGTH of Steps with GPS and Accelerometers", Swiss Federal Institute of Technology, Geodetic Engineering Laboratory, 6 pg.						
	LADETTO, Quentin et al., "Digital Magnetic Compass and Gyroscope Integration for Pedestrian Navigation", Faculte ENAC, Institut du Developpment Territorial, Geodetic Laboratory, 10 pg.						
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



Docket Number (Optional)

42616-0600

Application Number

10/618,549

Applicant(s)

R. LEVI et al.

Filing Date

July 11, 2003

Group Art Unit

2862

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,235,514	08/14/1993	Matsuzaki			
		5,239,264	08/24/1993	Hawks			
		5,287,295	02/15/1994	Ives et al.			
		5,287,297	02/15/1994	Ihara et al.			
		5,287,628	02/22/1994	Yamaguchi et al.			
		5,297,050	03/22/1994	Ichimura et al.			
		5,319,561	06/07/1994	Matsuzaki			
		5,327,348	07/05/1994	Kato			
		5,331,563	07/19/1994	Masumoto et al.			
		5,404,307	04/04/1995	Odagawa			
		5,424,953	06/13/1995	Masumoto et al.			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



Docket Number (Optional)

42616-0600

Application Number

10/618,549

Applicant(s)

R. Levi et al.

Filing Date

July 11, 2003

Group Art Unit

2862

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,428,902	07/04/1995	Cheah			
		5,488,788	02/06/1996	Durbin			
		5,583,776	12/10/1996	Levi et al.			
		5,935,191	08/10/1999	Sakanashi et al.			
		5,956,660	11/21/1999	Neumann			
		5,986,583	11/16/1999	Nakano et al.			
		6,018,705	01/25/2000	Gaudet et al.			
		6,032,099	02/29/2000	Fernandez			
		6,052,654	04/18/2000	Gaudet et al.			
		6,067,046	05/23/2000	Nichols			
		6,081,230	06/27/2000	Hoshino et al.			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional)

42616-0600

Application Number

10/618,549

Applicant(s)

R. Levi et al.

Filing Date

July 11, 2003

Group Art Unit

2862

APR 20 2004

U.S. PATENT DOCUMENTS

PATENT & TRADEMARK OFFICE

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,122,960	09/26/2000	Hutchings et al.			
		6,132,391	10/17/2000	Onari et al.			
		6,145,389	11/14/2000	Ebeling et al.			
		6,175,608	01/16/2001	Pyles et al.			
		6,204,807	03/20/2001	Odagiri et al.			
		6,243,660	06/05/2001	Hsu et al.			
		6,282,496	08/28/2001	Chowdhary			
		6,298,314	10/02/2001	Blackadar et al.			
		6,301,964	10/16/2001	Fyfe et al.			
		6,305,221	10/23/2001	Hutchings			
		6,366,855	04/02/2002	Reilly et al.			

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>			Docket Number (Optional) 42616-0600		Application Number 10/618,549		
			Applicant(s) R. Levi et al.				
			Filing Date July 11, 2003		Group Art Unit 2862		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,408,251	06/18/2002	Azuma			
		6,415,223	07/02/2002	Lin et al.			
		6,513,381	02/04/2003	Fyfe et al.			
		6,522,266	02/18/2003	Soehren et al.			
		6,546,336	04/08/2003	Matsuoka et al.			
		2003/0018430	01/23/2003	Ladetto et al.			
		2002/0089425	07/11/2002	Kubo et al.			
FOREIGN PATENT DOCUMENTS							
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							